

# PCG-TR3/TR3E PCG-TR3A/TR3AP/TR3F PCG-TR2MP PCG-TR3/TR3CN/TR3S/TR3T

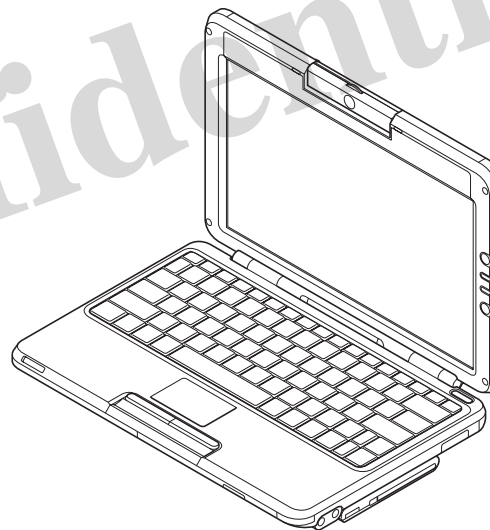
## SERVICE MANUAL

Ver. 5 2004D

### Revision History

Area	Model	Lineup	
Japanese	Japanese	PCG-TR3/B	△ [MA]
		PCG-TR3/P	
		PCG-TR3/S*	
		PCG-TR3/SP*	
		PCG-TR3E/B	
American	US Canadian	PCG-TR3A PCG-TR3AP*	△ [MA] △ [MA]
	Latin	PCG-TR3F	△ [MA]
European	AEP/UK	PCG-TR2MP	△ [MA]
Asian/Oceania/ South Africa	International	PCG-TR3	△ [MA]
	Chinese	PCG-TR3CN	△ [MA]
	Thai	PCG-TR3S	△ [MA]
	Taiwan	PCG-TR3T	△ [MA]

\* : CTO model



- Design and specifications are subject to change without notice.
- 本機の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

## NOTEBOOK COMPUTER

# SONY®

**Information in this document is subject to change without notice.**

Sony, VAIO and CLIE are trademarks or registered trademarks of Sony. Microsoft, Windows, Windows Media, Outlook, Bookshelf and other Microsoft products are trademarks or registered trademarks of Microsoft Corporation in the United States and other countries. The word Bluetooth and the Bluetooth logo are trademarks of Bluetooth SIG, Inc. AMD, AMD logo, AMD Duron and combinations thereof, 3DNow!, are trademarks of Advanced Micro Devices, Inc. Intel Inside logo, Pentium and Celeron are trademarks or registered trademarks of Intel Corporation. Transmeta, the Transmeta logo, Crusoe Processor, the Crusoe logo and combinations thereof are trademarks of Transmeta Corporation in the USA and other countries. Graffiti, HotSync, PalmModem, and Palm OS are registered trademarks, and the HotSync logo and Palm are trademarks of Palm, Inc. or its subsidiaries. (M) and Motorola are trademarks of Motorola, Inc. Other Motorola products and services with (R) mark like Dragomball are the trademarks of Motorola, Inc.

All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

**CAUTION:** The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

**CAUTION:** Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multistage or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

## Service and Inspection Precautions

### 1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify are as requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

### 2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the  $\triangle$  mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

### 3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

### 4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

### 5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

### 6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  $\triangle$  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

**Confidential**

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)

## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>CHAPTER 1. SPECIFICATIONS</b>			<b>CHAPTER 5. OTHERS</b>		
1-1. Specifications .....		1-1	5-1. The Barcode Label .....		5-1
1-2. CTO Information .....		1-2			(to 5-1)
		(to 1-2)			
<b>CHAPTER 2. BLOCK DIAGRAM</b> .....		2-1			
		(to 2-1)			
<b>CHAPTER 3. FRAME HARNESS DIAGRAM</b> .....		3-1			
		(to 3-1)			
<b>CHAPTER 4. EXPLODED VIEWS AND PARTS LIST</b>					
Palmrest					
P-1 .....		4-2			
Main Board					
M-1 .....		4-3			
Bottom					
B-1 .....		4-4			
HDD					
H-1 .....		4-5			
LCD					
L-1 .....		4-6			
Accessories					
A-1 .....		4-7			
		(to 4-7)			

History of the changes is shown as the “Revision History” at the end of this data.

変更履歴は，“Revision History”として、本データ末に記載してあります。

**Confidential**

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)

# CHAPTER 1.

## SPECIFICATIONS

### 1-1.Specifications

	J				AM		
	PCG-TR3/B	PCG-TR3E/B	PCG-TR3/P	PCG-TR3/SP*, TR3/S*	PCG-TR3AP*	PCG-TR3A	PCG-TR3F
CPU	ULV P-M 1GHz	M-Cel 800MHz	ULV P-M 1GHz	ULV P-M 1GHz or M-Cel 800MHz	ULV P-M 1GHz	ULV P-M 1GHz	ULV P-M 1GHz
Graphic	Intel 855GM	Intel 855GM	Intel 855GM	Intel 855GM	Intel 855GM	Intel 855GM	Intel 855GM
LCD	10.6 WXGA	10.6 WXGA	10.6 WXGA	10.6 WXGA	10.6 WXGA	10.6 WXGA	10.6 WXGA
HDD	40GB	40GB	40GB	40GB	40GB	40GB	40GB
OPT-DRIVE	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM or DVD-RW	CD-RW/DVD-ROM or DVD-RW	CD-RW/DVD-ROM	CD-RW/DVD-ROM
MEMORY1	512MB × 1	256MB × 1	512MB × 1	256MB × 1 or 512MB × 1 or 512MB × 2	512MB × 1 or 512MB × 2	512MB × 1	512MB × 1
QUANTITY [MAX]	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	PCGA-BP2T	PCGA-BP2T	PCGA-BP2T	PCGA-BP2T	PCGA-BP2T	PCGA-BP2T	PCGA-BP2T
internal W-LAN	○	○	○	○	○	○	○
OS	XP Home	XP Home	XP Pro	XP Pro, XP Home	XP Pro	XP Home	XP Home
			△ [MA]		△ [MA]	△ [MA]	△ [MA]

	EU	AO			
	PCG-TR2MP	PCG-TR3	PCG-TR3S	PCG-TR3T	PCG-TR3CN
CPU	ULV P-M 1GHz	ULV P-M 1GHz	ULV P-M 1GHz	ULV P-M 1GHz	ULV P-M 1GHz
Graphic	Intel 855GM	Intel 855GM	Intel 855GM	Intel 855GM	Intel 855GM
LCD	10.6 WXGA	10.6 WXGA	10.6 WXGA	10.6 WXGA	10.6 WXGA
HDD	40GB	40GB	40GB	40GB	40GB
OPT-DRIVE	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM	CD-RW/DVD-ROM
MEMORY1	512MB × 1	512MB × 1 + 256MB × 1	512MB × 1 + 256MB × 1	512MB × 1 + 256MB × 1	512MB × 1 + 256MB × 1
QUANTITY [MAX]	1024MB	1024MB	1024MB	1024MB	1024MB
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	PCGA-BP2T	PCGA-BP2T	PCGA-BP2T	PCGA-BP2T	PCGA-BP2T
internal W-LAN	○	○	○	○	×
OS	XP Pro	XP Home	XP Home	XP Home	XP Home
	△ [MA]	△ [MA]	△ [MA]	△ [MA]	△ [MA]

- The trademarks of registered trademarks of above table, refer to page 2.
- The model that is accompanied by asterisk (\*) is the CTO model.
- 本表中の商標・登録商標については、2ページをご参照ください。
- 機種名に(\*)がつくものはCTOモデルです。
- 組み合わせについてはCTO Informationをご確認ください。

Confidential

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)

## 1-2. CTO Information

Productsname : PCG-TR3/SP(For Japaese Area)

Model name : PCG-4A1N

OS : WinXP Pro  
Ver.1.0

M/B	CPU:ULV P-M 1GHz A-8068-352-A COMPLETED MBX-81(P1000)	CPU:M-Cel 800MHz A-8068-353-A COMPLETED MBX-81(C800)(S)
HDD	40GB A-8117-809-A or A-8130-165-A ASSY HDD 40GB (H,40) (S) or ASSY HDD 40GB (T,40) (S)	
LCD	10.6" WXGA(Brighter) A-8068-213-A LCD (UNIT) (10.6TFT WXGA) (S)	
Memory	1GB(512MBx2) A-8067-932-A COMPLETE PWB MM-9	512MB(512MBx1) A-8067-932-A COMPLETE PWB MM-9
		256MB(256MBx1) A-8068-457-A COMPLETE PWB MM-11G
Opt.Drive	DVD-RW 1-796-892-11 DVD RW (UJ-812, 9.5MM)	COMBO DRIVE 1-796-822-12 COMBO DRIVE (UJDA755, 9.5MM)
W-LAN	802.11a/b/g 1-761-864-11 CARD, WIRELESS LAN	
KeyBoard	Japanese KeyBoard 1-478-035-11 KEY BOARD UNIT (JP)	EnglishKeyBoard 1-478-035-21 KEY BOARD UNIT (US)
HeadPhone	HeadPhone 8-954-048-93 HEADPHONE MDR-Q22LP/S2 SET	
Office	2003 Parsonal	None

Products name : PCG-TR3/S(For Japaese Area)

Model name : PCG-4A1N

OS : XP Home  
Ver.1.0

M/B	CPU:ULV P-M 1GHz A-8068-352-A COMPLETED MBX-81(P1000)	CPU:M-Cel 800MHz A-8068-353-A COMPLETED MBX-81(C800)(S)
HDD	40GB A-8117-809-A or A-8130-165-A ASSY HDD 40GB (H,40) (S) or ASSY HDD 40GB (T,40) (S)	
LCD	10.6" WXGA(Brighter) A-8068-213-A LCD (UNIT) (10.6TFT WXGA) (S)	
Memory	1GB(512MBx2) A-8067-932-A COMPLETE PWB MM-9	512MB(512MBx1) A-8067-932-A COMPLETE PWB MM-9
		256MB(256MBx1) A-8068-457-A COMPLETE PWB MM-11G
Opt.Drive	DVD-RW 1-796-892-11 DVD RW (UJ-812, 9.5MM)	COMBO DRIVE 1-796-822-12 COMBO DRIVE (UJDA755, 9.5MM)
W-LAN	802.11a/b/g 1-761-864-11 CARD, WIRELESS LAN	
KeyBoard	Japanese KeyBoard 1-478-035-11 KEY BOARD UNIT (JP)	EnglishKeyBoard 1-478-035-21 KEY BOARD UNIT (US)
HeadPhone	HeadPhone 8-954-048-93 HEADPHONE MDR-Q22LP/S2 SET	
Office	2003 Parsonal	None

### PCG-TR3A Series CTO Component List △ [MA]

(For American Area)

Ver.1.0

The parts marked "○" are commonly used in all models. For the component of the parts that are not shown here, please refer to the PCG-TR3 Service Manual.

Ref *1	Configuration Parts	Product Code	28165030	28165130	28165230	28165330
		Model Name	PCG-TR3A *	PCG-TR3AP *	PCG-TR3AP *	PCG-TR3AP *
302	M/B	MBX-81 (P1000) (CPU:1GHz)	A-8068-352-A	○	○	○
401	HDD	40GB (Hi)	A-8117-809-A	○	○	○
411		40GB (To)	A-8130-165-A	○	○	○
608	LCD	10.6TFT WXGA	A-8068-213-A	○	○	○
320	Memory	1024MB (512MBx2)	A-8067-932-A	—	—	○
		512MB (512MBx1)	A-8067-932-A	○	○	—
1002	Battery	BP2T	A-8068-793-A	○	○	○
235	Opt.Drive	COMBO DRIVE	1-796-822-11	○	○	—
		DVD-RW	1-796-892-12	—	—	○
202	Internal W-LAN	Available(bg)	1-761-864-11	○	○	○
—	Office	Bundle	—	—	—	—
—	OS	WinXP Pro	—	○	○	○
		WinXP Home	—	○	—	—

\*1= Reference Number of the "PCG-TR3 Series" Service Manual

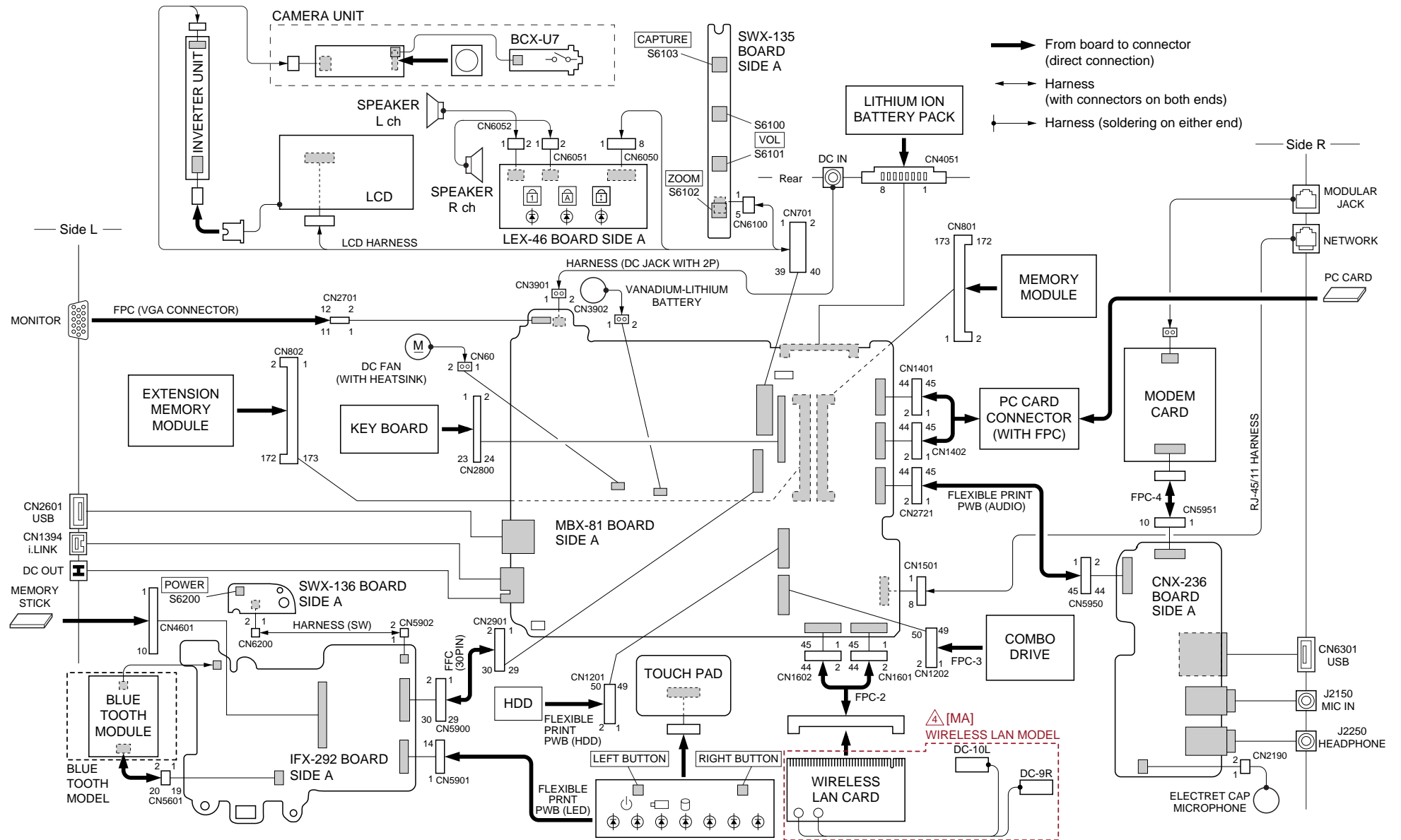
Confidential

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)



# CHAPTER 3.

## FRAME HARNESS DIAGRAM



Confidential

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)

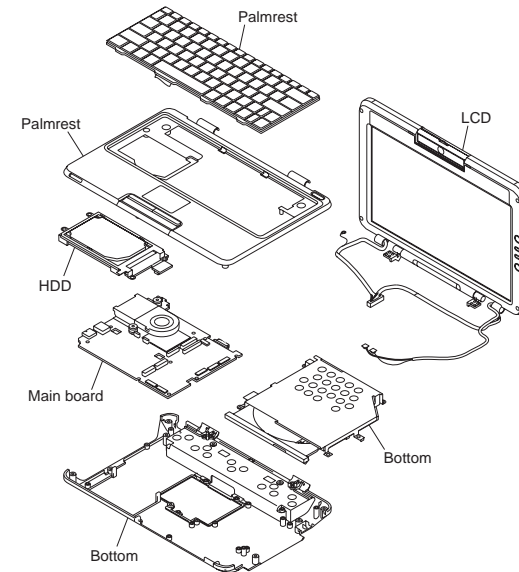
## CHAPTER 4.

### EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc. The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

Section	Page
<b>Palmrest</b>	
P-1 .....	4-2
<b>Main Board</b>	
M-1 .....	4-3
<b>Bottom</b>	
B-1 .....	4-4
<b>HDD</b>	
H-1 .....	4-5
<b>LCD</b>	
L-1 .....	4-6
<b>Accessory</b>	
A-1 .....	4-7

- 分解図と部品表は、パームレスト、ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので、詳細は右下の一覧表を参照してください。



#### NOTE:

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked "\$" are the High Value Modules (HVM).
- The parts marked "#" are the parts on which barcode label is attached. For the barcode label, refer to CHAPTER 5.
- The parts marked "&" are the "Customer Replaceable Parts (CRP)" that can be replaced by Field Customer Support. Especially the parts with the "<&" mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploded view.
- The model that is accompanied by asterisk (\*) is CTO model. The parts to component for CTO models, refer to CTO Information.

#### 【使用上の注意】

- \* 印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合、上部記載部品をメイン部品として使用してください。
- 部品名称の前に\$印のついた部品は、High Value Module (HVM) です。
- 商品名称の前に#印のついた部品は、バーコードラベル貼付部品です。
- 部品名称の前に&印のついた部品は、お客様窓口などでも交換可能なCustomer Replaceable Part (CRP) です。
- 特に<&>のついた部品は、使い分けが必要な部品ですので、分解図でCustomer Replaceable Parts 対象部品か、対象外部品かを必ず御確認ください。
- 機種名に(\*)がつくものはCTOモデルです。

組み合わせについてはCTO Informationをご確認ください。

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

△印の部品、または△印付きの点線で囲まれた部品は、安全性を維持するために重要な部品です。従って交換時は、必ず指定の部品を使用して下さい。

△[MA]

△[MA]

△[MA]

△[MA]

△[MA]

△[MA]

△[MA]

△[MA]

△[MA]

△[MA]

		Palmrest	Main Board	Bottom	HDD	LCD	Accessory
J	TR3/B	P-1	M-1	B-1	H-1	L-1	A-1
	TR3E/B	P-1	M-1	B-1	H-1	L-1	A-1
	TR3/P	P-1	M-1	B-1	H-1	L-1	A-1
	TR3/SP*	P-1	M-1	B-1	H-1	L-1	A-1
	TR3/S*	P-1	M-1	B-1	H-1	L-1	A-1
AM	TR3AP*	P-1	M-1	B-1	H-1	L-1	A-1
	TR3A	P-1	M-1	B-1	H-1	L-1	A-1
	TR3F	P-1	M-1	B-1	H-1	L-1	A-1
EU	TR2MP	P-1	M-1	B-1	H-1	L-1	A-1
AO	TR3	P-1	M-1	B-1	H-1	L-1	A-1
	TR3S	P-1	M-1	B-1	H-1	L-1	A-1
	TR3T	P-1	M-1	B-1	H-1	L-1	A-1
	TR3CN	P-1	M-1	B-1	H-1	L-1	A-1

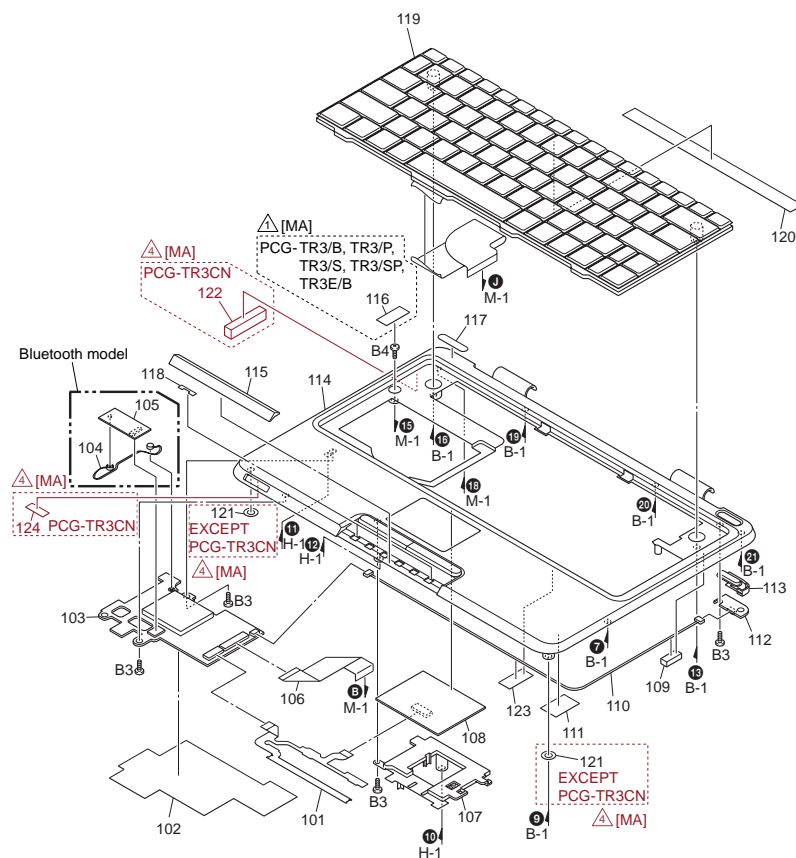
\* : CTO model

**Confidential**

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)



***P-1. Palmrest***



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
101	1-688-865-11	PWB, FLEXIBLE PRINT (LED)
102	4-675-341-02	SHEET (IFX)
103	A-8068-770-A	\$ IFX-292 (3) (S)
106	1-827-242-11	CABLE, FLEXIBLE FLAT (30PIN)
107	X-4625-904-4	ASSY (HOLDER) (TP)
108	1-796-709-11	PAD, TOUCH
109	4-675-371-01	TAPE (HARNESS) (PW)
110	1-962-288-11	HARNESS (SW)
111	4-676-301-02	SHEET (MIC)
112	A-8068-356-A	\$ COMPLETE SWX-136 (2) (S)
113	4-673-443-01	BUTTON (PW)
118	4-677-143-01	SHEET (LED) (LS)
120	4-677-808-01	TAPE KB L
123	4-658-789-02	TAPE (HARNESS)
B3	4-676-936-01	+SCREW, M2 +SPECIAL HEAD SELF S (M2X4)
B4	4-676-933-11	+SCREW, M2 +SPECIAL HEAD (EG) (M2X5.5)

			J				AM		EU		AO		
Ref. No.	Part No.	Description	TR3B	TR3E/B	TR3P	TR3S <sup>+</sup>	TR3AP <sup>+</sup>	TR3A	TR3F	TR2MP	TR3	TR5	TR3T
	104 1-827-266-31	CABLE, COAXIAL (WITH U. F. L. CONNECTOR)	•	•	•	•	•			•			
	105 1-234-803-21	BLUETOOTH MODULE	•	•	•	•				•			
△ [MA]	114 X-4625-889-4	ASSY (PALMREST)	•	•	•	•		•			•	•	•
△ [MA]	X-2021-413-1	ASSY PALMREST (NO WL)						•			•	•	•
	115 X-4626-163-5	ASSY (LENS) (LED) (F)	•	•	•	•		•	•			•	•
	X-4626-164-5	ASSY (LENS) (LED) (F) (BT)	•	•	•	•				•		•	•
△ [MA]	X-2021-414-1	ASSY LENS LED F (NO WL)											
	116 4-643-124-01	LABEL SEAL											
	117 4-682-148-01	LABEL ID	•	•	•	•							
	4-682-148-11	LABEL ID		•									
	4-682-148-91	LABEL ID			•								
	4-682-148-21	LABEL ID				•							
	4-682-148-31	LABEL ID					•						
	4-682-150-11	LABEL ID						•					
	4-682-150-01	LABEL ID							•				
	4-682-150-21	LABEL ID								•			
	4-682-150-31	LABEL ID									•		
	4-682-148-41	LABEL ID										•	
	4-682-148-81	LABEL ID											•
△ [MA]	4-682-148-71	LABEL ID											•
	4-682-150-41	LABEL ID											
	119 1-478-035-11	\$ KEY BOARD UNIT (JP)	•	•	•	•							
	1-478-035-21	\$ KEY BOARD UNIT (US)	•	•	•	•		•			•		
	1-478-036-71	KEY BOARD UNIT (LA)								•			
	1-478-036-11	(UK, EFTA)...KEY BOARD UNIT (CB)									•	•	
	1-478-036-21	(German)...KEY BOARD UNIT (DE)									•	•	
	1-478-036-31	(Swiss)...KEY BOARD UNIT (CH)									•	•	
	1-478-036-51	(Italian)...KEY BOARD UNIT (IT)									•	•	
	1-478-036-61	(Spanish)...KEY BOARD UNIT (ES)									•	•	
	1-478-036-81	(French)...KEY BOARD UNIT (FR)									•	•	
	1-478-035-41	KEY BOARD UNIT (TH)										•	
△ [MA]	1-478-035-51	KEY BOARD UNIT (TW)											•
	121 4-677-907-01	SPACER A	•	•	•	•	•		•	•	•	•	•
	122 4-679-811-01	CUSHION VGA P											
△ [MA]	124 4-672-236-01	TAPE COAXIAL CABLE											

△ [MA]

△ [MA]

△ [MA]

△ [MA]

△ [MA]

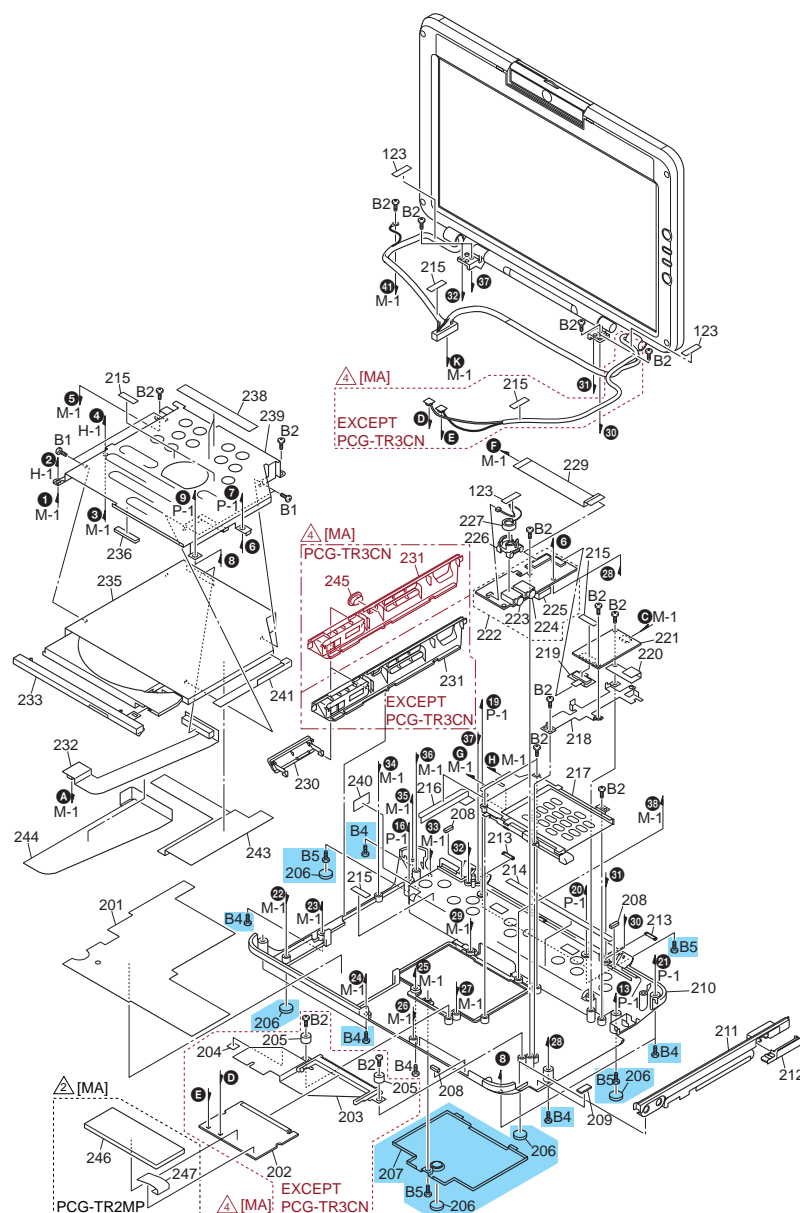
△ [MA]

△ [MA]

- This parts list contains two different types of parts.  
The first type is the parts that are common to all models.  
The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。



### ***B-1. Bottom***



Ref. No.	Part No.	Description
123	4-658-789-02	TAPE (HARNES)
201	4-673-441-01	SHEET (BOTTOM)
206	4-673-434-02	FOOT
207	X-4625-888-2	ASSY (LID) (DI/MM)
208	4-677-356-01	CUSHION MINIPCI
209	4-677-959-01	GASKET USB
210	X-4625-884-2	ASSY (BOTTOM) (FC)
211	X-4625-885-2	ASSY (ESCUTCHEON) (R)
212	X-4625-887-2	ASSY (DOOR) (MODEM)
213	4-673-468-04	STOPPER (HINGE)
214	4-675-376-01	TAPE (LCD) (CABLE)
215	4-676-302-01	TAPE (COMMON)
216	4-674-943-02	SHEET (PCCARD)
217	1-817-599-12	CARDBUS CONNECTOR WITH FPC
218	4-673-438-02	PLATE (MDC)
219	A-8068-208-A	COMPLETED FPC FPC-4 (S)
220	4-674-942-01	SHEET (MDC)
221	1-761-606-14	CARD, MODEM
222	A-8068-354-A	COMPLETE CNX-236 (S)
223	1-695-514-21	JACK (SMALL TYPE) 1P
224	1-793-162-11	JACK, SMALL TYPE
225	1-793-365-21	CONNECTOR, USB (A)
226	4-674-712-02	RUBBER (MIC)
227	1-542-544-21	ELECTRET CONDENSER MICROPHONE
229	1-688-866-11	PWB, FLEXIBLE PRINT (AUDIO)
230	X-4625-896-2	ASSY (DOOR) (USB)
232	A-8068-210-A	COMPLETED FPC FPC-3 (S)
236	4-677-164-01	SPACER OPT
238	4-677-732-01	TAPE (KB)
239	4-673-431-03	BRACKET (OPT)
240	4-677-530-01	GASKET OPT (M)
241	4-677-357-02	SHEET SHIELD OPT
243	4-677-529-01	SHEET SHIELD OPT-CNX/FPC
244	4-674-941-01	SHEET (OPT)
B1	4-676-939-01	SCREW (1 PLATE (EG)), +M2PS (M2X3)
B2	4-672-836-11	SCREW, M2 SPECIAL HEAD, EG GRIP (M)
B4	4-676-933-11	+SCREW, M2 +SPECIAL HEAD (EG) (M2)
B5	4-676-933-01	+SCREW, M2 +SPECIAL HEAD (EG) (M2)

				J				AM		EU		AO	
Ref. No.	Part No.	Description	TR3/B	TR3/B	TR3/P	TR3/SP	TR3/SP	TR3A	TR3F	TR3MP	TR3	TR3S	TR3T
	202	1-761-660-23	CARD, WIRELESS LAN (CLX11B 14CH)								●		
	1-761-660-31	CARD, WIRELESS LAN (CLX11B 11CH)											●
	1-761-784-11	CARD, WIRELESS LAN		●									
	1-761-786-11	CARD, WIRELESS LAN			●	●	●						
	1-761-864-11	WIRELESS LAN CARD						●	●				
	1-761-864-31	WIRELESS LAN CARD								●			
△ [MA]	203	A-8068-207-A	COMPLETED FPC FPC-2 (S)	●	●	●	●						
△ [MA]	204	4-676-895-01	TAPE HDD FPC S	●	●	●	●	●	●	●	●	●	●
△ [MA]	205	4-673-437-01	HOLDER (MINIPCJ)	●	●	●	●	●	●	●	●	●	●
	231	4-673-433-01	ESCUTCHEON (L)	●	●	●	●	●	●	●	●	●	●
		X-4626-443-1	ASSY ESCUTCHEON L										
	233	X-4626-896-2	ASSY (BEZEL) OPT1 (M)			●	●	●	●	●	●	●	●
		X-4626-530-1	ASSY BEZEL OPT DVDWR (M)			●	●	●	●	●	●	●	●
	235	1-796-822-11	\$ # COMBO DRIVE (UJDA755, 9.5MM)			●	●	●	●	●	●	●	●
		1-796-892-12	\$ # DVDWR (HU-812, 9.5MM)			●	●	●	●	●	●	●	●
△ [MA]	245	4-679-812-01	COVER KENJINTON										
△ [MA]	246	2-024-295-01	GASKET W-LAN								●		
	247	4-677-810-01	TAPE BTM										

△ [MA]      △ [MA]      △ [MA]      △ [MA]      △ [MA]      △ [MA]

• This parts list contains two different types of parts.

- This parts list contains two different types of parts.  
The first type is the parts that are common to all models.  
The other type is the parts that are different depending on each model.

- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

## H-1. HDD

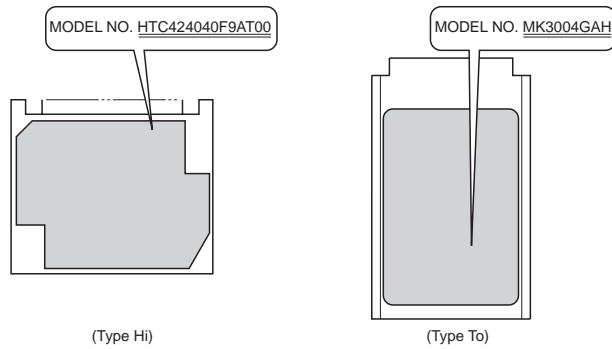
### How to Use Parts Differently.

This series of product uses the two different types of HDD (To type and Hi type).

When replacing the HDD, use the To type parts for the To type HDD, and use the Hi type parts for the Hi type HDD.

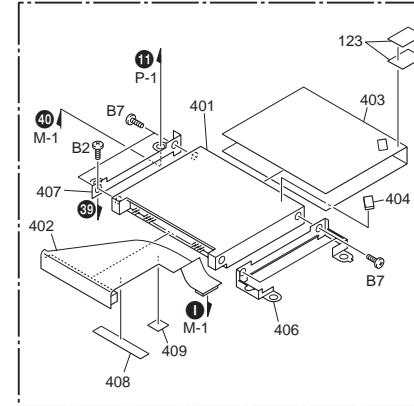
Replace the peripheral parts of HDD with the same type in the same way.

[ How to identify the To and Hi types of parts ]



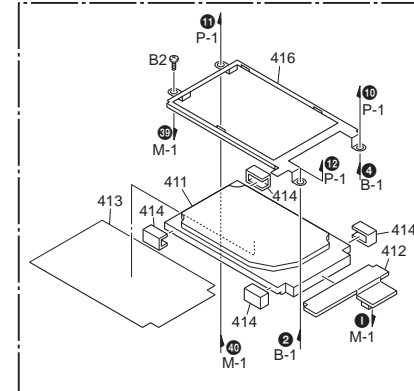
		Type Hi	Type To	
J	TR3/B	●	●	△ [MA]
	TR3E/B	●	●	
	TR3/P	●	●	
	TR3/SP*	●	●	
	TR3/S*	●	●	
AM	TR3AP*	●	●	△ [MA]
	TR3A	●	●	
	TR3F	●	●	
EU	TR2MP	●	●	△ [MA]
AO	TR3	●	●	△ [MA]
	TR3S		●	△ [MA]
	TR3T		●	△ [MA]
	TR3CN	●	●	△ [MA]

(Type Hi)



Ref. No.	Part No.	Description
123	4-658-789-02	TAPE (HARNESS)
401	A-8117-809-A	ASSY HDD 40GB (H, 40) (S)
402	1-689-155-11	PWB, FLEXIBLE PRINT (HDD_H) (Hi)
403	4-674-089-01	SHEET (HDD) (H) (Hi)
404	4-676-896-01	CUSHION HDD (H) (Hi)
* 406	4-673-629-01	BRACKET (HDD) (R) (H)
* 407	4-673-628-01	BRACKET (HDD) (L) (H)
408	4-676-894-01	TAPE HDD FPC L
409	4-676-895-01	TAPE HDD FPC S
B2	4-672-836-11	SCREW, M2 SPECIAL HEAD, EG GRIP (M2X4)
B7	4-679-325-01	PS SCREW M2.5

(Type To)

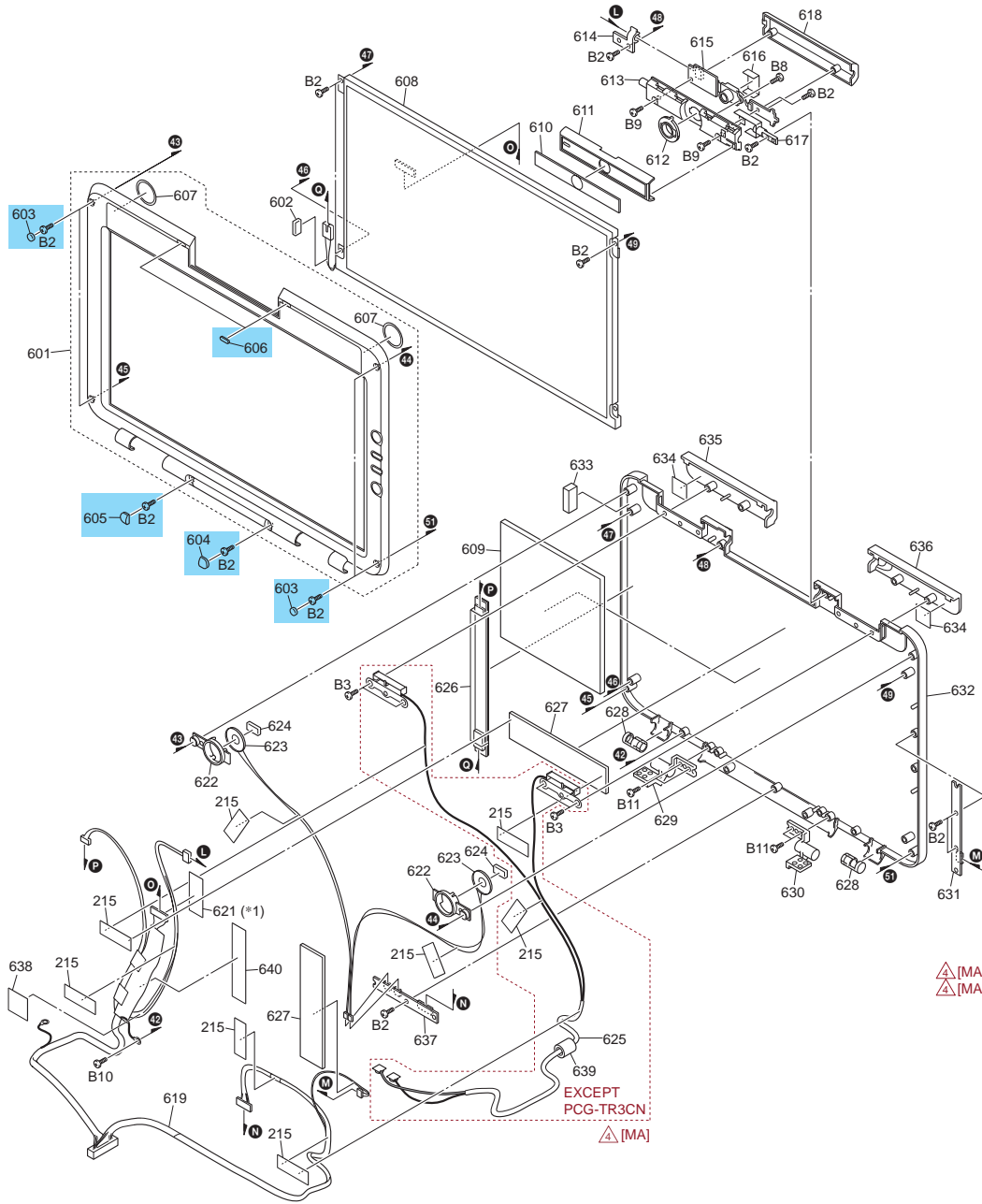


Ref. No.	Part No.	Description
411	A-8130-165-A	ASSY HDD 40GB (T, 40) (S)
412	1-688-245-11	PWB, FLEXIBLE PRINT (HDD) (To)
413	4-674-940-02	SHEET (HDD) (T) (To)
414	4-677-703-01	CUSHION HDD (C) (To)
* 416	4-673-430-02	BRACKET (HDD) (T)
B2	4-672-836-11	SCREW, M2 SPECIAL HEAD, EG GRIP (M2X4)

**Confidential**

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)

L-1. LCD (10.6-inch WXGA) (High Brightness)  
– Made by SH –



Ref. No.	Part No.	Description
215	4-676-302-01	TAPE (COMMON)
601	A-8115-923-A	ASSY BEZEL DISPLAY (S)
602	4-678-798-01	CUSHION CABLE LCD
603	4-673-457-01	COVER (SCREW) (DISPLAY)
604	4-673-634-01	COVER (SCREW) (CR)
605	4-673-632-01	COVER (SCREW) (CL)
606	4-673-458-01	CUSHION (CAMERA)
607	4-674-797-01	CUSHION (SP) (FRONT)
608	A-8068-213-A	LCD (UNIT) (10.6TFT WXGA) (S)
609	4-674-802-02	CUSHION (LCD)
610	4-674-550-02	WINDOW (CAMERA)
611	4-673-473-02	COVER (CAMERA)
612	4-673-464-01	RING (FOCUS) (CAM)
613	X-4625-990-2	ASSY (BEZEL) (CAMERA)
614	4-673-465-01	RING (SHAFT) (CAM)
615	A-8068-215-A	BCX-U7 (S)
616	4-674-804-01	SHEET (CAMERA)
617	4-673-477-01	HINGE CAMERA
618	4-673-478-01	HOUSING (CAMERA)
619	1-962-122-11	HARNESS, LCD
621	-	FILAMENT TAPE (12X30) (*1)
622	X-4626-139-1	ASSY (HOLDER) (SP)
623	1-825-449-11	SPEAKER, (1.6CM)
624	4-674-800-01	GASKET (SP)
626	1-477-753-11	INVERTER UNIT
627	4-676-077-01	CUSHION (LCD) (UPPER)
628	4-673-456-02	COVER (HINGE)
629	4-673-461-01	HINGE (L)
630	4-673-462-01	HINGE (R)
631	A-8068-355-A	COMPLETE SWX-135 (2) (S)
632	A-8115-847-A	ASSY DISPLAY FC (S)
633	4-674-796-01	MAGNET (LID) (SW)
634	4-674-798-01	SHEET (SP) (REAR)
635	4-673-459-01	ESCUTCHEON (WL) (L)
636	4-673-460-01	ESCUTCHEON (WL) (R)
637	A-8068-357-A	COMPLETE LEX-46 (2) (S)
638	4-677-727-01	TAPE CABLE CAMERA
640	4-677-732-01	TAPE (KB)
B2	4-672-836-11	<B> SCREW, M2 SPECIAL HEAD, EG GRIP (M2X4)
B3	4-676-936-01	+SCREW, M2 +SPECIAL HEAD SELF S (M2X4)
B8	4-676-934-01	+SPECIAL HEAD SELF SCREW T0.2 (M1.7X3)
B9	4-676-935-01	+SCREW, M1.7 +SPECIAL HEAD SELF (M1.7X4)
B10	4-672-836-01	SCREW, M2 SPECIAL HEAD, EG GRIP (M2X3)
B11	4-676-938-01	+B1 PLATE M2 (EG) (M2X4)

△ [MA]  
△ [MA]

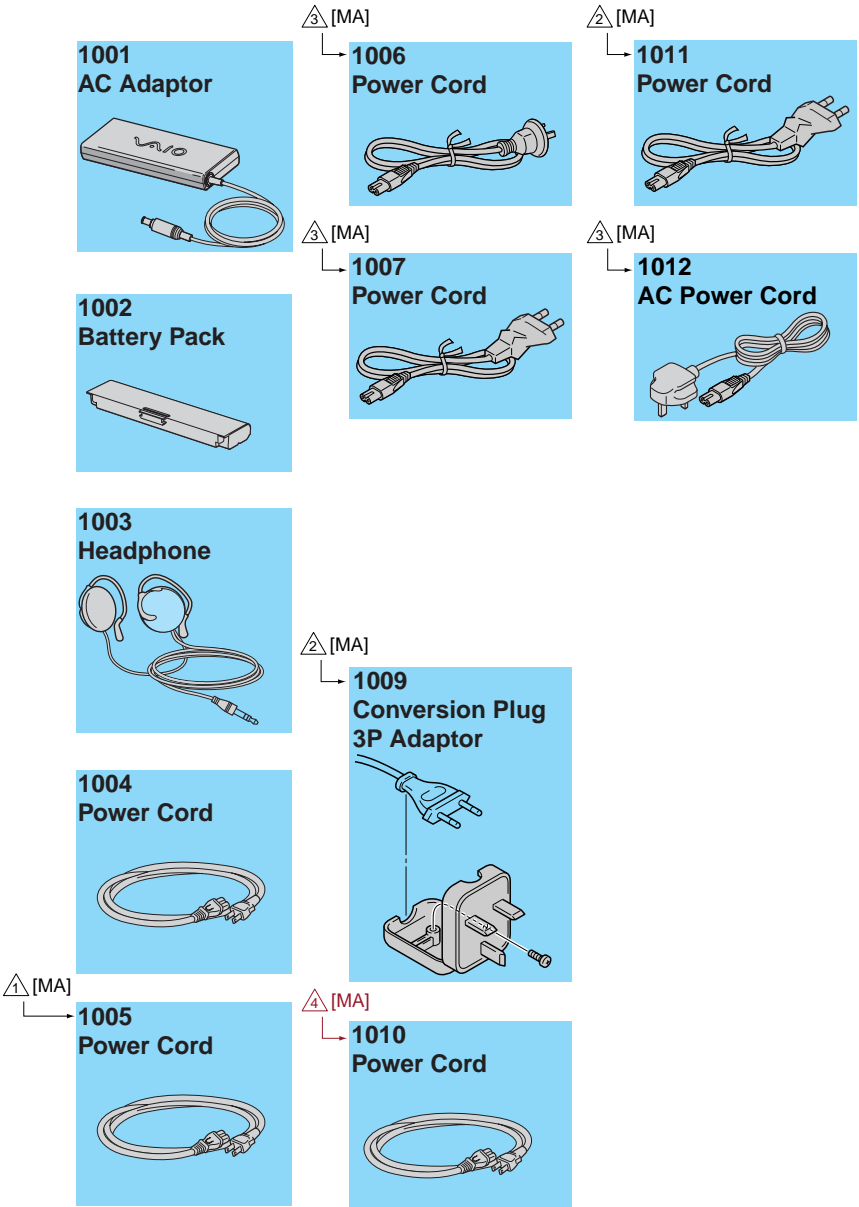
			J					AM	EU	AO			
			TR3B	TR3E/B	TR3P	TR3/S*	TR3AP*	TR3A	TR3F	TR2MP	TR3S	TR3T	TR3CN
Ref. No.	Part No.	Description											
625	1-754-288-11	ANTENNA (2.4/5G)	●	●	●	●	●	●	●	●	●	●	●
639	1-400-255-11	FERRITE CORE	●	●	●	●	●	●	●	●	●	●	●

△ [MA]

Confidential

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)

A-1. Accessories



Ref. No.	Part No.	Description
△ 1001	1-477-749-51	\$ & ADAPTOR, AC

Ref. No.	Part No.	Description	TR3/B	TR3E/B	J			AM			AO		
					TR3/P	TR3/SP	TR3/S*	TR3AP*	TR3A	TR3F	TR2MP	TR3	TR3S
1002	A-8068-793-A	\$ & BATTERY PACK BP2T (U) (S)	●	●	●	●	●	●	●				
	A-8068-794-A	\$ & BATTERY PACK BP2T (J) (S)	●	●	●	●	●	●	●				
	A-8068-795-A	\$ & BATTERY PACK BP2T (E/I) (S)	●	●	●	●	●	●	●				
1003	8-954-048-93	& HEADPHONE MDR-Q22LP/S2 SET	●	●	●	●	●	●	●				●
△ 1004	1-790-732-32	& CORD, POWER	●	●	●	●	●	●	●				
△ 1005	1-757-562-21	& CORD, POWER											
△ 1006	1-555-074-32	& CORD, POWER											
△ 1007	1-575-131-61	& CORD, POWER											
△ 1009	1-770-019-12	& (UK) ADAPTOR, CONVERSION PLUG 3P											
△ 1010	1-782-476-22	& CORD, POWER											
△ 1011	1-575-131-72	& CORD, POWER											
△ 1012	1-823-935-51	& CORD, AC POWER											
-	1-816-429-12	& (UK)PHONE PLUG (GB)											
-	4-682-324-01	& Instruction Manual (XP)	●	●	●	●	●						
-	4-682-268-11	& Instruction Manual (XP)											
-	4-682-268-41	& Instruction Manual (XP)											
-	4-682-269-31	& Instruction Manual (XP)											
-	4-681-653-01	& QUICK START											
-	4-681-839-01	& QUICK START											
-	4-681-497-11	& (UK, EFTA)HW SPECS											
-	4-681-497-21	& (German, Swiss)HW SPECS											
-	4-681-497-31	& (French, Swiss)HW SPECS											
-	4-681-497-41	& (Italian)HW SPECS											
-	4-681-497-51	& (EFTA)HW SPECS											
-	4-681-497-61	& (Spanish)HW SPECS											
-	4-681-921-01	& GETTING STARTED											

- This parts list contains two different types of parts.  
The first type is the parts that are common to all models.  
The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

CHAPTER 5.

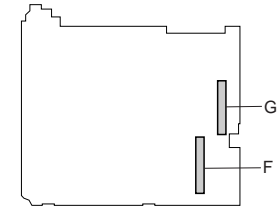
OTHER

5-1.The Barcode Label

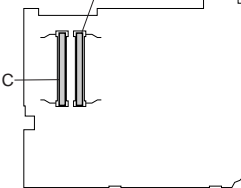
The hatched portion of the barcode is used as the repair data.

バーコードラベルの網掛け部は、修理データとして使用いたします。

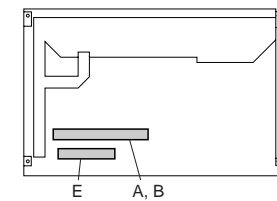
[ MBX-81 Board ]  
(Side A)



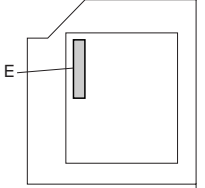
(Side B) A, B



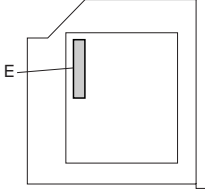
[ LCD (10.6 inch WXGA) Unit ] (Made by SH)  
(Rear)



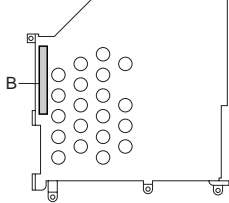
[ COMBO Drive ] (Made by PA)  
(Top)



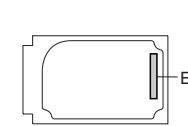
[ DVD-RW ] (Made by PA)  
(Top)



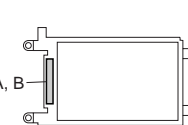
[ Bracket (OPT) ]  
(Top)



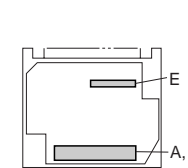
[ HDD (40GB) ] (Made by TO)  
(Top)



(Bracket HDD (T))



[ HDD (40GB) ] (Made by HI)  
(Top)



- A : Part No.  
B : Serial No.  
C : Revision No.  
D : Product Code  
E : Maker Barcode  
F : Global User ID (iLink)  
G : Mac Address  
[ ] : Barcode

Confidential

PCG-TR3/TR3E (J)  
PCG-TR3A/TR3AP/TR3F (AM)  
PCG-TR2MP (EU)  
PCG-TR3/TR3CN/TR3S/TR3T (AO)




PCG-TR3/TR3E (J)  
 PCG-TR3A/TR3AP/TR3F (AM)  
 PCG-TR2MP (EU)  
 PCG-TR3/PCG-TR3CN/TR3S/TR3T (AO)

## List of PCG-TR Series (As of April, 2004)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-318-XX	PCG-TR1/B PCG-TR1/P			
9-876-319-XX		PCG-TR1A PCG-TR1AP		
9-876-320-XX		PCG-TR1F		
9-876-321-XX			PCG-TR1MP	
9-876-322-XX				PCG-TR1
9-876-324-XX				PCG-TR1C
9-876-323-XX				PCG-TR1L
9-876-325-XX				PCG-TR1S
9-876-326-XX				PCG-TR1T
9-876-341-XX	PCG-TR2/B PCG-TR2/P* PCG-TR2E	PCG-TR2A PCG-TR2AP1* PCG-TR2AP3* PCG-TR2F		PCG-TR2 PCG-TR2C PCG-TR2L PCG-TR2S PCG-TR2T
9-876-364-XX	PCG-TR3/B PCG-TR3/P PCG-TR3/S* PCG-TR3/SP* PCG-TR3E/B	PCG-TR3A PCG-TR3AP* PCG-TR3F	PCG-TR2MP	PCG-TR3 PCG-TR3CN PCG-TR3S PCG-TR3T

\* : CTO Model

 : Additional Models

This manual and the constituent data may not be replicated, copied nor reprinted in whole or in part without prior written authorization of Sony Corporation.

本マニュアルの一部，または全部について，無断でデータの複製，複写，転載することを禁じます。



## Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2004.01.22	First Edition	
-02	Ver. 2	2004.02.04	① Front Page (Model Lineup), Page 1-1, Page 1-2, Page 4-1 to 4-5, Page 4-7, Back Cover	N2004_014AK
-03	Ver. 3	2004.02.16	② Front Page (Model Lineup), Page 1-1, Page 4-1 to 4-5, Page 4-7, Back Cover	N2004_017AK
-04	Ver. 4	2004.03.25	③ Front Page (Model Lineup), Page 1-1, Page 4-1 to 4-5, Page 4-7, Back Cover	N2004_042AK
-05	Ver. 5	2004.04.26	④ Front Page (Model Lineup), Page 1-1, Page 3-1, Page 4-1 to 4-7, Back Cover	N2004_049AK
<Remarks>				